BRUHAT BANGALORE MAHANAGARA PALIKE

PRE-MEASUREMENT

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 015-23-000007

Name of Agency: Sri. A. Kumar Reddy, No. 44, Kaveri Nagar, A Block, Bangalore - 32.

Work order No: BBMP/EE/BTP/WO/137/2022-23 D: 03-03-2023.

	Measurements Recarded on :	28-06-2023					
Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						Cum
	New Drain						
	3rd Cross Singapura Garden						
	E/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	12.80	1.00	1.00	12.80	
	W/S						
		1	15.00	1.00	1.00	15.00	
		1	13.20	1.00	1.00	13.20	
		1	9.50	1.00	1.00	9.50	
		1	12.60	1.00	1.00	12.60	
		1	15.00	1.00	1.00	15.00	
		1	3.00	1.00	1.00	3.00	
	From 2nd Cross Road						
	S/S	1	15.00	1.00	0.90	13.50	
		1	15.00	1.00	0.90	13.50	

AEE (VRP)

AEE (VRP)

Assistant Engineer

Contractor

Assistant Executive Engineer

Assistant Executive Engin

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		1	3.10	1.00	1.00	3.10	
		1	6.80	1.00	1.00	6.80	
	Cross Road towards SWD						
	S/S	1	14.20	1.00	1.40	19.88	
	N/S	1	15.00	1.00	1.40	21.00	
	Culverts						
	Singapura Garden 3rd Cross	1	7.20	1.50	1.20	12.96	
	1st Main C 3rd Cross	1	6.50	1.50	1.20	11.70	
	1st Main A 1st Cross	1	6.50	1.50	1.20	11.70	
		Total Qty =				**330.24**	
	Total	**Qty Limited to Tender Qty =**				**329.20**	

Assistant Engineer
Ward No. 15, Kuvempunagara

Assistant Executive Engineer
Vidyaranyapura Sub-Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	12-07-2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						Cum
	New Drain						
	3rd Cross Singapura Garden						
	E/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	12.80	1.00	0.15	1.92	
	W/S						
		1	15.00	1.00	0.15	2.25	
		1	13.20	1.00	0.15	1.98	
		1	9.50	1.00	0.15	1.43	
		1	12.60	1.00	0.15	1.89	
		1	15.00	1.00	0.15	2.25	
		1	3.00	1.00	0.15	0.45	
	From 2nd Cross Road						
	S/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	3.10	1.00	0.15	0.47	
		1	6.80	1.00	0.15	1.02	
	Cross Road towards SWD						
	S/S	1	14.20	1.00	0.15	2.13	
	N/S	1	15.00	1.00	0.15	2.25	
	Culverts						
	Singapura Garden 3rd Cross	1	7.20	1.50	0.20	2.16	
	1st Main C 3rd Cross	1	6.50	1.50	0.20	1.95	
	1st Main A 1st Cross	1	6.50	1.50	0.15	1.46	
		Total Qty =				**48.35**	
	Total	**Qty Limited to Tender Qty =**				**47.94**	

AEE (VRP) SD

Assistant Engineer

A. K. Reddy
Contractor

Assistant Executive Engineer
Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	02-09-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately).						Cum
	New Drain						
	Raft						
	3rd Cross Singapura Garden						
	E/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	12.80	0.90	0.15	1.73	
	W/S						
		1	15.00	0.90	0.15	2.03	
		1	13.20	0.90	0.15	1.78	
		1	9.50	0.90	0.15	1.28	
		1	12.60	0.90	0.15	1.70	
		1	15.00	0.90	0.15	2.03	
		1	3.00	0.90	0.15	0.41	
	From 2nd Cross Road						
	S/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	3.10	0.90	0.15	0.42	
		1	6.80	0.90	0.15	0.92	
	Cross Road towards SWD						
	S/S	1	14.20	0.90	0.15	1.92	
	N/S	1	15.00	0.90	0.15	2.03	
	Side Wall						
	3rd Cross Singapura Garden						
	E/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.58	2.61	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.61	2.75	
		2	15.00	0.15	0.58	2.61	

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Assistant Engineer

Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.58	2.61	
		2	15.00	0.15	0.59	2.66	
		2	12.80	0.15	0.60	2.30	
	W/S						
		2	15.00	0.15	0.59	2.66	
		2	13.20	0.15	0.58	2.30	
		2	9.50	0.15	0.60	1.71	
		2	12.60	0.15	0.58	2.19	
		2	15.00	0.15	0.61	2.75	
		2	3.00	0.15	0.58	0.52	
	From 2nd Cross Road						
	S/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.55	2.48	
		2	3.10	0.15	0.45	0.42	
		2	6.80	0.15	0.55	1.12	
	Cross Road						
	S/S	2	14.20	0.15	1.10	4.69	
	N/S	2	15.00	0.15	1.10	4.95	
	Culvert					**93.22**	
	Raft						
	Singapura Garden 3rd Cross	1	7.20	1.30	0.20	1.87	
	1st Main C 3rd Cross	1	6.50	1.30	0.20	1.69	
	1st Main A 1st Cross	1	6.50	1.30	0.20	1.69	
	Side Wall						
	Singapura Garden 3rd Cross	2	7.20	0.30	0.55	2.38	
	1st Main C 3rd Cross	2	6.50	0.30	0.55	2.15	
	1st Main A 1st Cross	2	6.50	0.30	0.55	2.15	
						11.92	
		Total Qty =				**105.14**	
		Qty Limited to Tender Qty =				**104.97**	

AEE (VRP) SD

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Assistant Engineer
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Assistant Engineer

Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	02-09-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification						Tonne
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	Singapura Garden						
	3rd Cross Singapura Garden E/S						
	10 mm dia	1479	2.10	3105.90	0.62	1925.66	
	8 mm dia	16	147.80	2364.80	0.39	922.27	
	Total					**2847.93**	
	3rd Cross W/S						
	10 mm dia	283	2.10	594.30	0.62	368.47	
	8 mm dia	16	28.20	451.20	0.39	175.97	
	Total					**544.43**	
	10 mm dia	96	2.10	201.60	0.62	124.99	
	8 mm dia	16	9.50	152.00	0.39	59.28	
	Total					**184.27**	
	10 mm dia	127	2.10	266.70	0.62	165.35	
	8 mm dia	16	12.60	201.60	0.39	78.62	
	Total					**243.98**	
	10 mm dia	151	2.10	317.10	0.62	196.60	
	8 mm dia	16	18.00	288.00	0.39	112.32	
	Total					**308.92**	
	From 2nd Cross Road						
	10 mm dia	276	2.10	579.60	0.62	359.35	
	8 mm dia	16	33.10	529.60	0.39	206.54	
	Total					**565.90**	
	10 mm dia	57	2.10	119.70	0.62	74.21	
	8 mm dia	16	6.80	108.80	0.39	42.43	
	Total					**116.65**	
	Cross Road towards SWD						
	10 mm dia	119	2.10	249.90	0.62	154.94	
	8 mm dia	16	14.20	227.20	0.39	88.61	
	Total					**243.55**	
	10 mm dia	126	2.10	264.60	0.62	164.05	
	8 mm dia	16	15.00	240.00	0.39	93.60	
	Total					**257.65**	
	RCC Drains Grant Total					**5313.28**	
	Culverts						
	Singapura Garden 3rd Cross Middle						
	16 mm	72	2.10	151.20	1.58	238.90	
	12 mm	34	7.20	244.80	0.89	217.87	
	Total					**456.77**	

AEE (VRP) SD

Assistant Engineer Contractor Assistant Executive Engineer

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	1st Cross Enterance to Wards E/S						
	16 mm	65	2.10	136.50	1.58	215.67	
	12 mm	34	6.50	221.00	0.89	196.69	
	Total					**412.36**	
	3rd Cross Enterance to Wards E/S						
	16 mm	66	2.10	138.60	1.58	218.99	
	12 mm	34	6.60	224.40	0.89	199.72	
	Total					**418.70**	
	Culvert Grand Total					**1287.83**	
						6601.11	Kgs
	Total Qty =					**6.60**	Tonnes
	Qty Ltd Approved Qty =					**6.60**	Tonnes

AEE (VRP) SD

Assistant Engineer
Ward No. 15, Kuvempunagara

Assistant Executive Engineer
Vidyaranyapura Sub-Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	02-09-2023					
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**						Cum
	Culvert Ramp						
	Singapura Garden 3rd Cross	2	7.20	1.00	0.18	2.59	
	1st Main C 3rd Cross	2	6.50	1.00	0.18	2.34	
	1st Main A 1st Cross	2	6.50	1.00	0.18	2.34	
		Total Qty =				**7.27**	
		Qty Limited to Tender Qty =				**7.20**	

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Vidyaranyapura Sub-Division

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A.V.G Reddy
Contractor